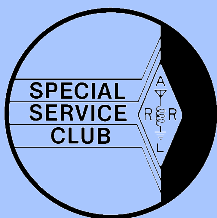




# The Raleigh Amateur Radio Society's **EXCITER**

## GET INVOLVED

- RARS General Membership meeting: Second Tuesday of the month.
- The RARS net meets every night except Saturday @ 8 p.m. on 146.640.
- The RARS Technical & Trader's net: Saturdays @ 8:00 PM on 146.64.
- RARS meets for a monthly dinner on the First Tuesday of each month.



## PUBLIC SERVICE EVENTS

Interested in helping? Visit <https://www.rars.org/public-service.php>

frequently for our 2021 ham public service schedule.

## RARS General Meeting

**Main Topic:** Wind turbines, solar power & traditional ways of generating electricity

**By:** Brian Henderson, VE6ZS

**Date:** September 14, 2021

**Time:** Meeting at 7:30 PM, informal gathering at 7PM on Zoom.

**Where:** Zoom

## RARS Net Monthly Summary

Julie Royster KT4JR

RARS net manager

520 checkins

1056 minutes

## RARS Officers

### **PRESIDENT**

John Honeycutt  
N8ZU  
919.417.2477  
jfh49@bellsouth.net

### **VICE PRESIDENT**

Tom Lewis  
N4TL  
[N4TL2@yahoo.com](mailto:N4TL2@yahoo.com)

### **SECRETARY**

Mark Kilmer  
KM4JRH  
919.676.0110  
mark.kilmer@gmail.com

### **TREASURER**

Greg Seamster  
KE4PAX  
919.859.0029  
[KE4PAX@arrl.net](mailto:KE4PAX@arrl.net)



## The Raleigh Amateur Radio Society

The Raleigh Amateur Radio Society, Inc. (RARS) was founded in 1969 and continues to serve and support the amateur radio community in the greater Triangle area. In 1999, the society incorporated a new RARS and obtained 501(c)(3) non-profit tax status.

The objectives of the club are to promote worldwide friendship through amateur radio; to be of public service by providing radio communications in times of disaster, emergency, or civic needs; to educate members in radio technique, and to provide training classes to assist in obtaining amateur radio licenses.

Anyone interested in amateur radio is eligible to apply for membership. Dues for regular licensed amateurs are \$18 per year (from July 1 through June 30). Additional immediate family members pay \$5 each per year. Dues for licensed amateurs older than 59 or younger than 16 are \$12 per year. Dues for non-licensed associate members are \$9 per year. Applications for membership may be obtained from the treasurer or on the RARS website.

<https://www.rars.org>

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## ***Exciter***

The Exciter is the official newsletter of the Raleigh Amateur Radio Society. It appears each month as a PDF on the RARS website at [www.rars.org](http://www.rars.org). Members receive email notification when the latest version is available. Please provide your email address to the Treasurer.

The Exciter welcomes articles, advertisements, and other contributions. To submit a piece to the newsletter, please contact the Editor. The Editor reserves the right to edit any and all pieces. The submission deadline for each month's Exciter is the Saturday that is ten days before the general meeting. All submissions must be final. Drafts are not accepted.

The views expressed in the Exciter are those of the individual authors and do not necessarily reflect the views of the Editor or RARS.

Tom Lewis, N4TL, editor ([editor@rars.org](mailto:editor@rars.org))

## For Your Information

### RARS General Meeting

Date: Second Tuesday of each month

Location: Ridge Road Baptist Church 2011  
Ridge Road Raleigh, NC, 27607

Time: People begin arriving at 7 p.m. The  
meeting officially begins at 7:30 p.m.

### RARS Monthly Dinner

All members and guests are welcome to the monthly (first Tuesday) RARS Supper, 6:30PM, at the CHOW Pizza Bar 8311 Creedmoor Rd, Raleigh, NC. CHOW is behind McDonalds at the intersection of Creedmoor Road and Brennan Drive. We go to the back left in the restaurant. Their private room holds 30-40 and the table layout is flexible. Informal and Dutch, just bring your appetite and best rag to chew.

### RARS Repeaters in Raleigh

145.130, 146.640 and 444.525

Join us for the nightly RARS net at 8 p.m. on the 146.640 repeater. All hams holding a Technician class license or higher are invited to check in. We welcome both RARS and non-RARS members to the net.

There is a net Listing on the RARS website click here. <https://www.rars.org/nets.php>

### VE Testing

~~The RARS VEs will accept walk-in testing in February, May, August and November at 5:30PM, prior to RARS membership meetings at Ridge Road Baptist Church; the RARSfest in April; the Cary Swapfest in July; the JARS-Fest in November; and following RARS license classes. Please bring a photo ID, your original and a copy of your current license, your \$14 exam fee, and any valid CSCEs that prove passing elements beyond that of your current license. Visit <https://www.rars.org> for more information.~~

## RARS Birthdays

Jack	K4WFJ	09/02
Daryl	KX4WY	09/03
Mary Jo	K4MJL	09/05
Joe	K4JMZ	09/06
Lou	K4BYN	09/07
Matt	N4MRW	09/13
Robert	W4MBD	09/16
Sandy	AC1Y	09/16
Bill	WB4WB	09/19
Rod	KI4LSN	09/20
Charles	W2WNC	09/20
Sam	KN4RWI	09/22
Anthony	KO4KTZ	09/24
Steve	KI4YXJ	09/25
Justin	AJ4MJ	09/25
David	AB4MB	09/26
Julie	WE3T	09/27
Leon	KB4KSA	09/27

## New Members

Ben Stone	WA4BSD
Anna Howard	KN4ZSM
Anna Fernandez	KO4SHN
Matthew Canon	KD9ABR
Mike Beasley, Sr.	KJ4ZPE
Catherine Stokes	KO4SDD
Andrew Hotchkiss	KJ4WRC
David Arthur	K4DBZ

## President's Message, September 2021

The RARS board has made the very difficult decision to cancel the 2022 RARS*fest*. The main reason for this decision is, of course, uncertainty around the COVID pandemic, whether or not a venue will be available with workable safety and liability rules, whether vendors will return, and whether a sufficient number of hams will be willing to attend.

Planning for RARS*fest* must begin very shortly. It did not seem practical to the board to begin this planning, which involves spending funds that could not be recovered if safety restrictions prevented the event as they did in 2020 or if vendors and hams stayed away because of COVID concerns. RARS*fest* has never been a profit center for RARS, but the club does count on earning back expenses and a little more in most years.

Another reason the board made this decision is, frankly, concern that we need to rebuild the base of volunteers needed to plan and carry out an event on the scale of RARS*fest*. For all of this term, the RARS*fest* chair on the board has been vacant. We cannot seriously begin event planning without this committee chair. In addition, some key volunteers whose contributions have been essential to the event are unable to continue their service to RARS*fest*.

I hope that some of those reading this will be interested in adding their names to the roster of volunteers needed to put on the 2023 RARS*fest*.

The monthly RARS dinners have resumed for any and all interested people. No reservations needed, just show up at Chow Pizza Restaurant, 8311 Creedmoor Road, Raleigh. Bring friends, YLs, and XYLs for fellowship and a fun time.

Hurricanes and earthquakes have made the last month or so a busy one for Amateur Radio's public service volunteers who aid communications during natural disasters. Natural disasters highlight the ability for hams to get messages through when the commercial networks fail. We can be proud of the public service that hams provide. Not all public service involves natural disasters, though. Charity events such as fund-raising walks, runs, and bicycle rides enable interested hams to provide service close to home. If you are interested in public service through ham radio, please check out

## President's Message, continued

the public service tab on our web page for volunteer opportunities.

Cycle 25 hasn't yet come roaring back, but I've noticed quite a few days when HF and 6 meter bands are pretty lively, especially late in the day. There has been no shortage of contests and special events lately, either. The ARRL's special events calendar at <http://www.arrl.org/Pages/view/special-event-stations/> has day by day listings for September and beyond. The ARRL contest page, <http://www.arrl.org/contest-calendar>, has lists of sponsored contests. Links to third party contests are at the bottom of the page. Other sources, like Facebook groups, list these and all kinds of ham radio activities.

73 John Honeycutt, N8ZU, RARS President

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## RARS Monthly Dinner, NEW LOCATION

All members and guests are welcome to the monthly (first Tuesday) RARS Supper, 6:30PM, at the CHOW Restaurant, 8311 Creedmoor Road, Raleigh. The restaurant is at the corner of Brennan Drive and Creedmoor Roads, behind McDonalds. After entering the restaurant, go to the left rear to the private room. Informal and Dutch, just bring your appetite and best rag to chew.

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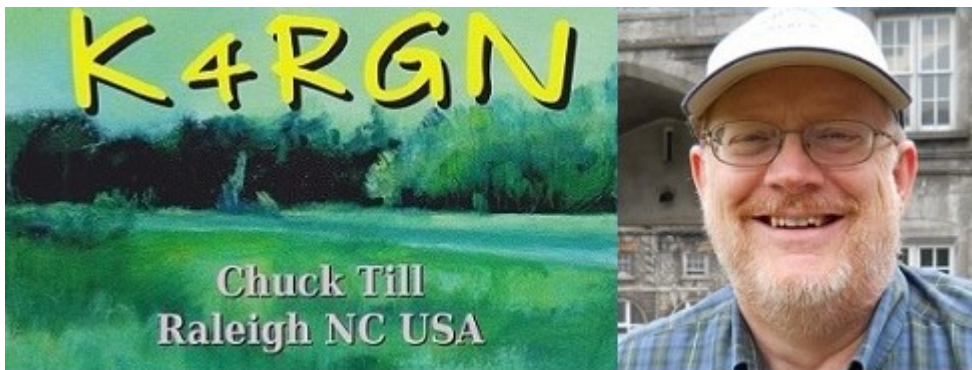
## Free AB4OZ Hamfest, Weather permitting

The free AB4OZ HamFest will be Saturday, September 18, 2021. Setup at 9AM. Start time is 10AM. New location, Golden Corral Restaurant rear parking lot. 3551 Grenelle street, Raleigh NC 27603.

Check the latest information here [QRZ.COM](http://QRZ.COM).

## August 10, 2021 RARS meeting

The meeting was held on Zoom, as we have been since the covid-19 pandemic started. Many members connected from 7PM on. President John Honeycutt, N8ZU, ran the formal part of the meeting. See the meeting minutes on [page 18](#) for details. After the formal part of the meeting, Tom, N4TL introduced Chuck Till, K4RGN. Chuck talked about the New FCC RF Safety rules.



Chuck Till, K4RGN, picture copied from QRZ.com






















































- **Is RF dangerous?**
  - Remember, we're talking about radiated RF, not conducted RF
  - Sometimes
- **Is this something new at the FCC?**
  - No, this has been in progress for years
  - 1998, 2013, 2020, ...
- **Is the FCC over-reacting to crazies?**
  - FCC did not change any of the exposure limits
- **Is the FCC picking on hams?**
  - No, the FCC also changed the rules for ISM, Public Mobile, Satellite, AM/FM/TV Broadcast, FRS/GMRS/MURS/CB, and Private Mobile
  - FCC provides new "exceptions" to simplify lives of many hams

Chuck's Power Point slides are on the RARS website.

[New RF Safety Rules](#)



## August 10, 2021 RARS meeting

 Tom N4TL, Raleigh	 Charles WB4DCM Raleigh	 K4BYN Louis
 Brantley K4CBW	 Charles-WA4OSS	 K4HM - Hank - Mears, MI
 John Honeycutt N8ZU	 Chuck, K4HF	 Ken AD4GX
 Larry Martin WB4FCU, Clayton	 Cliff KA7NSU Cary	 KN4VTT Matthew Youngsville
 Chuck Till K4RGN Raleigh FM05	 Doug AD4UL Erie, PA	 Mike KN4DRN
 Dave W4YDY	 Doug N3LTV Raleigh NC	 Mike N9MDS Fuquay
 dennis wz0q	 Ernie NC4EW	 Mike KN4DRN
 KE4IHX - Al. Roxboro	 George, N2GXC	 Mike N9MDS Fuquay
 AJ4YA. Grady. Wendell, NC	 Greg KE4PAX	 NC4CD Charlie Durham, NC
 Alan AB4OZ	 Howard, N4KYW, Cary	 Richard N1FUA Apex
 Allen WA2GMI Raleigh	 Hugh KD4WJD	 Roy KT4EM
 Anna KN4ZSM, Cary NC	 Jeremy Lindsley (K2HJX)	 Stephen NY4NC WF
 Barry NC4AZ	 Jerry KE4TTS Cary	 Tadd (KA2DEW) N. Raleigh
 Bill - W4WHW	 Jim KM4WRK, Raleigh	 Tom - K2UCU - Cary, NC
 Bob K4RLC	 Jim W1XR	 Tom - NC4TS -Lake Royale, NC
 Bob, W4GIA	 Joe N4BJH WakeForest	 Tyler KO4BZA
 Bob. N4GEB	 John, KK4JCN , Apex	 Wilbur Goss
 Charles KM4AMT Raleigh	 Julie WE3T Raleigh	

53 people attended the zoom meeting

## Future RARS Meeting Topics

Titles, topics, and speakers **subject to change.**

9/14/2021	Wind turbines, solar power & traditional ways of generating electricity	Brian Henderson, VE6ZS Calgary, Alberta, Canada
10/12/2021	RARS Officers nominations & NCPACKET, a several-county-wide only-on-ham-radio social network.	Election committee & Tadd Torborg, KA2DEW
11/9/2021	RARS Officers election and Show and Tell	Election committee & members
12/14/2021	RARS Officers induction & Meteor Scatter	Zach Thompson, KM4BLG Asheville, NC

During the Zoom meetings please keep  
your microphone muted.  
Please edit your name so your  
Name, Call and Location are shown.

The next few meeting of RARS will be held using Zoom at 7:30PM. Zoom is a conferencing application that runs on computers, tablets and phones. The meeting ID will be sent out to everyone via email.

Quick start guide for new Zoom users

[https://support.zoom.us/hc/en-us/articles/360034967471-Quick-start-guide-for-new-users#h\\_b0c98dfa-d90f-486d-9617-71ab7b41a273](https://support.zoom.us/hc/en-us/articles/360034967471-Quick-start-guide-for-new-users#h_b0c98dfa-d90f-486d-9617-71ab7b41a273)

Zoom help center

<https://support.zoom.us/hc/en-us>



## Interesting information and items sent to the Exciter.

### Online Ham map that allows searching.

I recently found this map online, which allows you to search by ZIP code or other criteria to locate hams in your area or elsewhere. It could be useful for those hunting grid squares.

[haminfo.tetranz.com/map](http://haminfo.tetranz.com/map)

73, Dennis, NC4DK

### The History of Single Sideband

Here is the YouTube of this month's "AWA Shares" presentation by Ed Gable K2MP:

<https://m.youtube.com/watch?v=BBRntPJTr5Y&feature=youtu.be>

Enjoy, Brian, kn4r

### Berryville VA Hamfest pictures

<https://jacjr.smugmug.com/70th-Berryville-Hamfest-2021/n-SPjrn/>

[https://photos.google.com/share/AF1QipM-NsMsIe8rvrPfnL9m3L5DkZvQPJTgOkXNt3hq7g6NH2R1zviJbnyznJOUTPF\\_Jw?key=NWhyX3MwY0J0SUFiR2NLTUd0YXZd2ZmdfWVM0dWp3](https://photos.google.com/share/AF1QipM-NsMsIe8rvrPfnL9m3L5DkZvQPJTgOkXNt3hq7g6NH2R1zviJbnyznJOUTPF_Jw?key=NWhyX3MwY0J0SUFiR2NLTUd0YXZd2ZmdfWVM0dWp3)

From Brian Harrison, KN4R

### Shelby pictures

Below are some Shelby pictures that I took, including a quick eyeball visit with Steve N4LQ at his QTH. Great wx, great attendance, and tons of interesting radios (couple of big estates etc. etc.)

<https://drive.google.com/drive/folders/1uU-PHWaNqUWCHhN43X2Aje4s8EIyiaJP?usp=sharing>

From Brian Harrison, KN4R

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<https://www.rars.org>

## Hamfest pictures, Shelby, RARS, Charlotte, Dayton, etc.

Nick England has a website full of pictures he has taken over the years.

<https://virhistory.com/ham/index.html>

## Free Book about six meters.

<https://www.k5nd.net/wp-content/uploads/2020/08/Six-Meters-eBook-V5.pdf>

Read about the Fred Fish Memorial Award.

### What is the FFMA?

The Fred Fish Memorial Award was established by the ARRL in 2008 to honor Fred Fish, W5FF, who worked and confirmed all 488 grid squares in the 48 contiguous United States on 6 meters.

For more read the [QST announcement](#) and the [ARRL's online FFMA information](#).

<https://www.k5nd.net/2021/08/fred-fish-memorial-award-ffma/>

## R9 Ham Magazine and W4DW

In the 1933 magazine, on page 10, on the right side. You can read about **W4DW** being elected as the ARRL Director in the Roanoke Division.

There are \$15 transmitting tubes advertised on page 26. \$15 in 1933 is about \$315 today.

<https://worldradiohistory.com/Archive-Early-Radio-Assorted/R-9-1933-02.pdf>

<https://worldradiohistory.com/Archive-Early-Radio-Assorted/R9-1934-10.pdf>

<https://worldradiohistory.com/Archive-Early-Radio-Assorted/R9-1935-12.pdf>

Thanks to Brian Harrison, KN4R for finding these links.

## More History from the Antique Wireless Association

**History of the Telegraph** part 1 hosted by Chris Hausler.

The date is September 15, 2021, 08:00 PM in Eastern Time.

Anyone can sign up at this link.

<https://us02web.zoom.us/join/zoom-join?secret=81>

## RARS Membership links

Use the following link to verify / update your membership profile.

<https://www.rars.org/userprofile.php>

Use the following link to renew your membership.

[https://www.rars.org/membership\\_renewal.php](https://www.rars.org/membership_renewal.php)

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## HAM RADIO LUNCHEON

*Everyone is welcome!*

Every Thursday at 11:30 am

New York Diner, 909 McKnight Drive Knightdale.

The location may change, check the AB4OZ entry in

Check the latest information here [QRZ.COM](http://QRZ.COM).

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## Hamfest Calendar

For details go to <http://www.arrl.org/hamfests/search>

SEDCO-W4DXCC Conference, Sept. 24, 25 Pigeon Forge, TN

Rock Hill, SC Oct. 2

Winston Salem Swapfest Oct 16

Asheville Radio Museum Swapfest & Tours Oct 23

Benson, NC - Nov 21

## Deepest Sympathies

A transfer of \$50 has been made to the RARS / Dick Bitner Youth Education fund in memory of **Jeff Wittich AC4ZO** (November 8, 1955 – August 2, 2021)



RARS President John Honeycutt, N8ZU, (left), presenting the Special  
Lifetime Membership plaque to Jeff Wittich, AC4ZO

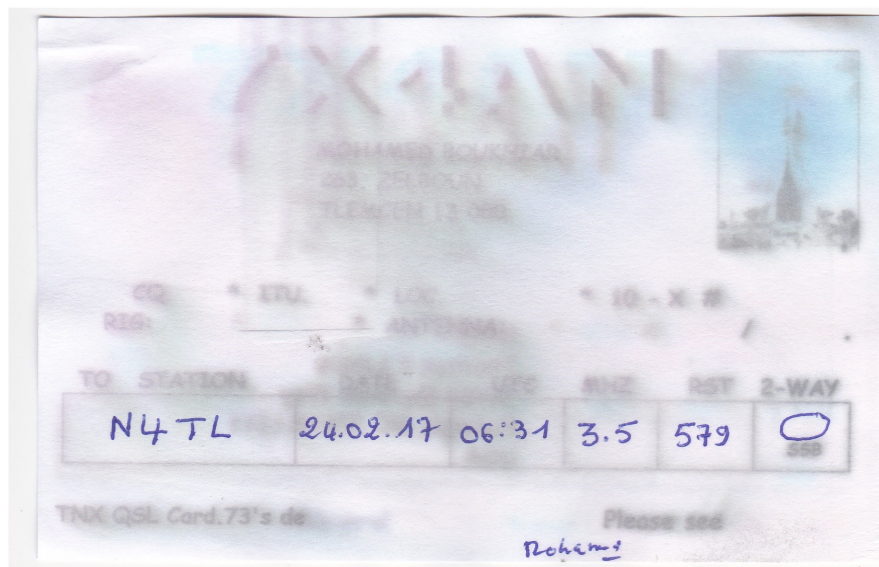
This picture is from December 2020



## Check the Junk Mail for QSL cards

I received a Road Scholar catalog in the mail a couple of weeks ago. I set it aside thinking I would read it later. After a week I was going to throw it away thinking we probably will not do any traveling for a while. But I paged thru part of it and guess what. An envelop fell out. It had gotten wet and was hard to read. Inside was a QSL card from 7X4AN for a QSO on 80 meters that I had sent for in July 2020 with some money included. The Road Scholar catalog was not water damaged.

73 Tom N4TL



7X4AN, Algeria, QSL card



The envelop addressed to N4TL. It can be read if it held up to the light just right.

## RARS Classifieds

Copied from <https://www.rars.org/classifieds.php>

The items below were listed within the last 30 days on the RARS website.

Check the RARS Classified List on the RARS website regularly for new items.

### **1.3mm x 3.5mm Rt angle power cord (male plug)**

Posted August 29th, 2021 by: KA2FWC

Contact: [ka2fwc@bellsouth.net](mailto:ka2fwc@bellsouth.net)

I am in search of a power cord. It is a 1.3mm x 3.5mm Rt angle (coaxial type) power cord (male plug)

It only need to be 6in long. (Longer is OK, I can cut it) It doesn't need anything on the other end

Thank, Frank

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### **MFJ-969 Deluxe Versa Tuner II**

Posted August 28th, 2021 by: WM2Z

Contact: [wmelhado@nc.rr.com](mailto:wmelhado@nc.rr.com)

MFJ-969 Deluxe Versa Tuner II. Used in excellent condition. Matches any transceiver to virtually any antenna. Includes MFJ-1316 AC Adapter. This equipment is from the estate of a silent key friend.

\$175

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### **Vibraplex Deluxe Straight Key (REDUCED)**

Posted August 28th, 2021 by: WM2Z

Contact: [wmelhado@nc.rr.com](mailto:wmelhado@nc.rr.com)

Vibraplex Standard Straight Key. Used in excellent condition. This key has a heavy black base, chrome hardware and a large black knob. Spring tension is adjustable. This key is from the estate of a silent key friend.

\$50



## RARS Classifieds continued

### **DX Engineering Multi-Band Vertical Antenna Kit**

Posted August 27th, 2021 by: WM2Z

Contact: [wmelhado@nc.rr.com](mailto:wmelhado@nc.rr.com)

DX Engineering Multi-Band Vertical Antenna Kit. 43-ft vertical covers 160 thru 10 meters. Used in excellent condition.

Kit includes

DXE-MBVE-1 Antenna

DXE-MBVE-5 SAF-T-TILT Base

DXE-UN-43 Multi-Band UNUN

DXE-RADP-3 Radial Plate with about 60 radial wires

All original documentation

This equipment is from the estate of a silent key friend. The antenna is partially disassembled. The radial wires were pulled from the ground and coiled up.

\$350 Pickup in Youngsville, NC only.

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### **HEATHKIT SB-104A FOR SALE**

Posted August 21st, 2021 by: AC1Y

Contact: [ac1wye@gmail.com](mailto:ac1wye@gmail.com)

Selling my Heathkit SB-104A HF transceiver with matching PS. Very clean. Includes a MATCHED SET of PA transistors to replace the finals. Both original Manuals included. Rig worked fine before I moved back to Raleigh in January, but the finals have failed. Glad I had a spare matched set. Just not using the rig so letting her go. Asking \$350. Contact Sandy AC1Y at 919-625-7181, I'm in Knightdale.

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### **SB-220 AMP FOR SALE**

Posted August 21st, 2021 by: AC1Y

Contact: [ac1wye@gmail.com](mailto:ac1wye@gmail.com)

Selling my Heathkit SB-220 amp. In superb condition. Has these Harbach mods: Soft Start, Rectifier-Metering Board, HV Capacitor Bank and Fan Upgrade. Does not have Solid State Switching, as all my xcvrs are tube-type. Included are a spare pair of Eimac 3-500Z, used, but tested at full output. Manual also included. Price \$1000. Contact Sandy AC1Y

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<https://www.rars.org>

## RARS Classifieds continued

at 919-625-7181, I'm in Knightdale.

### **Polyphaser IS50NX-C2 coaxial lightning protector, Type N connectors.**

#### **Price change**

Posted August 18th, 2021 by: N4TL

Contact: [n4tl2@yahoo.com](mailto:n4tl2@yahoo.com)

Coaxial Lightning Protector, Flange Mount, 1.5-700MHz, HF 2kW, VHF 375W, DC Block, N Female, 50 ohms. This sells for \$72.99 at DX engineering. I am asking \$25.

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### **102in whip**

Posted August 17th, 2021 by: KA2FWC

Contact: [ka2fwc@bellsouth.net](mailto:ka2fwc@bellsouth.net)

I am in search of a "new" Stainless Steel 102in "CB" whip. Trader Joe doesn't have any

It is for my mobile with an AH tuner

Thanks, Frank, KA2FWC

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### **Kenwood TS-820 160 thru 10 Meter SSB/CW 100 Watt Transceiver**

Posted August 11th, 2021 by: K4HF

Contact: [k4hf@arrl.net](mailto:k4hf@arrl.net)

The TS-820 (not TS-820S) has a built in power supply and comes with the matching VFO-820 remote VFO and the matching MC-50 Base mike. Tested and in very good condition. \$245 or \$280 including an additional new set of three tubes for the RF output section.

Contact me by E Mail, preferably, or (919) 872-6555 - Thanks, Chuck

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## RARS Classifieds continued

### Misc Ham Radio Gear

Posted September 6th, 2021 by: K4HF

Contact: [k4hf@arrl.net](mailto:k4hf@arrl.net)

1. Kenwood TH-77A 2 Mtr/440 5 Watt Handheld. Comes with a good battery, drop-in charger and speaker mike. very good condition - \$120
2. Diamond Model GZV4000 power supply, 5V TO 15 VDC AT 40 Amps continuous with built in speaker. As new condition - \$120
3. Heathkit Model V-7A Volt Ohm Meter - Meter moves, needs calibration - \$10
4. Bag of 14 New PL-259 Coax Connectors - \$20
5. Astron RS35M Power Supply, 13.8 VDC, 35/25 Amps excel. \$100

Contact me by e mail, preferably, or (919) 872-6555. Thanks, Chuck

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### Kenwood TS-520 100 Watt 80 - 10 Meter Transceiver

Posted September 6th, 2021 by: K4HF

Contact: [k4hf@arrl.net](mailto:k4hf@arrl.net)

The TS-520 comes with a built in power supply, base mike and manual. Tested and fully operational. In very good condition. \$295.

Contact me by e mail or (919) 872-6555.

Thanks, Chuck

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## RARS Board Meeting Minutes

The RARS Board meeting minutes will be published after they are approved by the Board.

## RARS Membership Meeting Minutes – August 10, 2021

**7 PM via Zoom**

**Call to Order:**

Pledge of Allegiance recited.

No new members or license upgrades.

A quorum was present.

Minutes for July 2021 were approved.

**Officer Reports:**

President's Report next BoD meeting will be next Tuesday; also on Zoom.

Jeff Wittich, who has provided support to RARS in many ways, passed away August 2, 2021.

Ray Burlingame-Goff, G4FOM also passed away last week.

VP Report next month topic is power delivery

The Secretary had no report.

The Treasurer presented information on the membership numbers, income and assets.

The Public Service Director noted upcoming events, and requested volunteers.

Youth Director Brantley K4CBW discussed youth events and the purchase of prizes.

At large director AB4OZ noted upcoming hamfests.

At large director Tadd KA2DEW still working out details of having new HAM meetings. Will send notifications and details will be on Tadd's website.

Tom Lewis introduced tonight's speaker, Chuck Till.

**Additional Comments**

Chuck Littlewood made note to look at the RARS Classifieds.

The meeting adjourned at 8:48 PM Eastern Time.

Respectfully Submitted,

Mark Kilmer

RARS Secretary